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TI Preparation of tack-free highly elastic multifilament urethane rubber threads

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SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT Patent

LA German

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE---3911725	A1	19901018	1989DE-3911725	19890411
	DE---3911725	C2	19970925		
PRAI	1989DE-3911725		19890411		

AB The title fibers are prepd. by spinning molten, thermoplastic polyurethanes contg. 1-50% plasticizers [bis(methoxyethyl)phthalate, tricresyl phosphate (I), cresyl di-ph phosphate]. A poly(butylene adipate)-1,4-butanediol-MDI copolymer [Shore A hardness 82, melt index (190.degree., 212 N) 3] contg. 20% I was spun at 192.degree. and 1.2 kg/h and the spun fibers were cooled in water at 100 m/min to give fibers with titer 2165/30 dtex, tenacity 0.85 cN/dtex, elongation 360%, and elongation ratio (DIN 53 385) 0.90; vs. 1802, 1, 566, and 0.80, resp., when spun without I.

IT Plasticizers
(phthalate and phosphate esters, for urethane rubbers in fiber spinning)

IT Synthetic fibers, polymeric
RL: USES (Uses)
(urethane rubber, spinning of, plasticizers for)

IT 117-82-8, Bis(2-methoxyethyl)phthalate 1330-78-5, Tricresyl phosphate 26444-49-5, Cresyl diphenylphosphate
RL: MOA (Modifier or additive use); USES (Uses)
(plasticizers, for urethane rubbers in fiber spinning)

IT 26375-23-5, Adipic acid-1,4-butanediol-MDI copolymer 30662-91-0, Adipic acid-1,4-butanediol-1,6-hexanediol-MDI copolymer
RL: USES (Uses)
(rubber, fibers, plasticizers for spinning of)